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| APPLICATION NO.                      | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--------------------------------------|-------------|----------------------|---------------------|------------------|
| 10/635,098                           | 08/05/2003  | Alan R. Winslow      | WEYE121227/25278    | 6999             |
| 28624                                | 7590        | 09/30/2004           | EXAMINER            |                  |
| WEYERHAEUSER COMPANY                 |             |                      | CHIN, PETER         |                  |
| INTELLECTUAL PROPERTY DEPT., CH 1J27 |             |                      |                     |                  |
| P.O. BOX 9777                        |             |                      | ART UNIT            | PAPER NUMBER     |
| FEDERAL WAY, WA 98063                |             |                      | 1731                |                  |

DATE MAILED: 09/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

|                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                              | 10/635,098             | WINSLOW, ALAN R.    |  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                              | Peter Chin             | 1731                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is **FINAL**.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-10 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 05 August 2003 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date 1/20/04.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

#### DETAILED ACTION

1. Claims 1,4-7,9,10 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Jaschinski et al (WO 00/50462).

Jaschinski et al discloses the use of a carboxylated cellulose fiber in making multilayer tissue paper as well as the use of wet strength agents, pages 12,17,18,39,41,45. The carboxylated cellulose fiber increases the strength. Multilayer headbox including 3 layer head boxes are used to prepare the tissue paper in which at least one layer contains the carboxylated cellulose fiber. PAE and CMC wet strength agents are disclosed on page 17. Thus, Jaschinski et al anticipates or obviously shows the claimed invention.

2. Claims 2,3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jaschinski et al (WO 00/50462) in view of Jewell et al (6,379,494) and Wang (6,627,750).

Jewell et al like Jaschinski et al carboxylates the cellulose fiber using TEMPO. Jewell et al found that the presence of aldehyde is undesirable and it should be minimized. Jewell et al also teaches that the best strengths are realized with carboxyl contents of at least 5 meq/100g. Wang further teaches that greater absorbency is achieved if the carboxyl content of the carboxylated cellulose fiber is the range of 150 to 400 meq/kg or 15 to 40 meq/100 g. Thus, it would have been obvious to employ carboxyl content in the claimed range and to minimize the aldehyde content to achieve the desired strength and absorbency of the tissue product in Jaschinski et al. Claim 8:

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Jewell et al teaches that cationic starch can be advantageously used with the carboxylated cellulose fiber.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Chin whose telephone number is (571) 272-1186. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Peter Chin  
Primary Examiner  
Art Unit 1731